

# Jayawanth Rayakota

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**Summary** — Software Engineer with **3+ years of experience** in full-stack development and **cloud-based systems**. Skilled in **Vue.js** to build **responsive frontends** and **Node.js, Spring Boot** to develop **efficient backend systems**. Experience in using **AWS** (EC2, S3, Lambda) to deploy and manage applications. Proficient in designing **RESTful APIs**, **RPC's** and using **Docker** for containerization to streamline deployments. Passionate about solving technical challenges and providing **scalable, maintainable** and user-focused solutions.

## Experience

### Upwork - USA

*Freelance - Full Stack & AI Engineer — Python, React, LLM, AWS — AI Agent — Automation*

Apr 2024 – Present

- **Architected & deployed a full-stack AI SaaS application** Using React/Next.js frontend and a Python FastAPI backend, containerized with Docker and deployed on AWS ECS. The system integrated OpenAI and Claude APIs to reduce manual data processing time for clients by 40%.
- **Engineered a custom Retrieval-Augmented Generation (RAG) system** for a client knowledge base, leveraging Pinecone for vector search and LangChain for orchestration. This improved answer accuracy by over 60% and decreased hallucination rates by providing source-attributed responses.
- **Developed an AI-powered automation workflow** that integrated CRM (via REST API), email, and document processing (AWS Textract) to automate a client's lead intake process, eliminating 15+ hours per week of manual administrative work.
- **Designed and implemented a multi-agent AI system** using AWS Step Functions and Lambda to handle complex, multi-stage customer service tasks. The system autonomously classified requests, gathered information, and resolved 70% of tier-1 support tickets without human intervention.

### Kyndryl

*Software Engineer - Application Services & Cloud Engineering*

Feb 2022 – Dec 2023

- **Led the end-to-end migration of a legacy monolithic system to a scalable microservices architecture** using **Spring Boot** and **Node.js**, while implementing **Redis caching** and **Kafka** for event-driven communication. This overhaul reduced latency by 70%, improved system scalability, and cut maintenance overhead.
- **Engineered high-performance, full-stack applications with Vue.js and Node.js** that enhanced UI responsiveness by 30% and boosted sales by 15%. Optimized backend performance by reducing database calls by 20% through advanced **MongoDB indexing** and server-side caching.
- **Designed and implemented real-time features including a chat system and notification service**, using the **Meteor Pub-Sub** model and **Kafka**. This increased user engagement by 15% and grew the active user base by 10% by significantly improving interactivity.
- **Architected and deployed scalable cloud solutions on AWS** using **EC2, Lambda, and S3**, automating infrastructure with Terraform. Introduced Playwright for test automation, reducing bugs by 45% and cutting manual testing time by 30% to ensure robust, efficient deployments.

## Skills

**Languages** JavaScript, Java, Python, TypeScript

**Developer Tools** Git, BitBucket, JIRA, Confluence, Postman, Playwright

**Frontend** Vue.js, React.js, Angular, Material UI, CSS.

**Backend** Node.js, Express.js, Spring Boot, MVC, Spring Security, JS, Firebase

**DevOps / Cloud** AWS, Docker, Kubernetes, Terraform, Kafka

**Databases** MySQL, MongoDB, Oracle, PostgreSQL, DynamoDB, Redis

**Methodologies** Agile, Scrum, Microservices Architecture, REST API Design

**Additional** System Architecture, Performance Optimization, CI/CD

## Education

**University of North Carolina at Charlotte, NC, USA**

Jan 2024 - May 2025

*Master of Science in Computer Science*

*Major: Software Engineering & Data Science*